#### PATENT COOPERATION T SATY

From the INTERNATIONAL SEARCHING AUTHORITY

INIE	HNATIONAL SEA	RCHING AUTH	ORITY				
То:					PCT		
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43 <i>bis</i> .1)			
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
1 ''	licant's or agent's file form PCT/ISA/2	•		FOR FURTHER ACTION See paragraph 2 below			
l	national application T/US2004/02518		International filing date (o 02.08.2004	lay/month/year)	Priority date (day/month/year) 31.07.2003		
•	national Patent Clas L3/00, B81B1/00		both national classification a	and IPC			
,	icant NDYLAB, INC.						
1.	1. This opinion contains indications relating to the following items:  □ Box No. I Basis of the opinion □ Box No. II Priority □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement □ Box No. VI Certain documents cited □ Box No. VII Certain defects in the international application □ Box No. VIII Certain observations on the international application						
۷.	written opinion of the applicant choose international Burwill not be so consider the sound of th	nternational prelif f the International poses an Authorifeau under Rule ( nsidered. as provided about A a written reply date of mailing of the sider.	al Preliminary Examining ty other than this one to 66.1 bis(b) that written on ve, considered to be a way together, where approp of Form PCT/ISA/220 or b	Authority ("IPEA"). be the IPEA and the pinions of this Internation of the printer, with amendments and the printer, with amendments and the printer.	Ill usually be considered to be a However, this does not apply where e chosen IPEA has notifed the ational Searching Authority  IPEA, the applicant is invited to ents, before the expiration of three n of 22 months from the priority date,		
3.	For further options, see Form PCT/ISA/220.  For further details, see notes to Form PCT/ISA/220.						

Name and mailing address of the ISA:



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### 10/567002 IAP9 Rec'd PCT/PTO 31 JAN 2006

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/025181

			3			
_	Box	No	. I Basis of the opinion			
1.	<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ol>					
		lang	s opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search der Rules 12.3 and 23.1(b)).			
2.	With	reg essa	pard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:			
	a. ty	ре	of material:			
		] ;	a sequence listing .			
		] 1	table(s) related to the sequence listing			
b. format of material:						
		Ji	n written format			
		3 i	n computer readable form			
	c. tin	ne c	of filing/furnishing:			
		) (	contained in the international application as filed.			
		) f	iled together with the international application in computer readable form.			
		] f	furnished subsequently to this Authority for the purposes of search.			
3.	!	has cop	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional ies is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.			
4.	Addit	tion	al comments:			

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/025181

_			Dura da					
	ROX	No. II	Priority					
1.	$\boxtimes$	The following document has not been furnished:						
		⋈	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).					
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).					
			quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.					
2.		has be	pinion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.					
3.		was no	ot been possible to consider the validity of the priority claim because a copy of the priority document to available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has been established on the assumption that the relevant date is the claimed priority date.					
4.	Add	itional o	bservations, if necessary:					

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/025181

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
	the entire international application,					
$\boxtimes$	claims Nos. 17-21					
bed	cause:					
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
$\boxtimes$	no international search report has been established for the whole application or for said claims Nos. 17-21					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form		has not been furnished			
			does not comply with the standard			
	the computer readable form		has not been furnished			
			does not comply with the standard			
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
	See separate sheet for further details					

_							
_	Box No	. IV	Lack of unity of i	nventio	n		
1.	.   In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:						
			paid additional fees.				
			paid additional fees	under p	rotest.		
		$\boxtimes$	not paid additional fo	ees.			
2.	☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.						
3.	This Au	thori	ty considers that the	require	ment of un	nity of invention in accordance with Rule 13.1, 13.2 and 13.3	is
	□ com	olied	with				
			lied with for the follo	wina re:	asons.		
		·	parate sheet	wing roc			
1				on octol	blichad in 1	respect of the following parts of the international application:	
⋆.			y, this report has be	en estat	onsneu m i	respect of the following parts of the international application.	
	□ all pa	arts.					
	the p	arts	relating to claims No	)s. 1-16			
	Box No industri					13 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or ons supporting such statement	
1.	Stateme	ent					
	Novelty	(N)		Yes: No:	Claims Claims	1-8,14-16 9,10	
	Inventive	e ste	p (IS)	Yes: No:	Claims Claims	1-8,14-16 9-13	
	Industria	ıl apı	olicability (IA)	Yes: No:	Claims Claims	1-16	
2.	Citations	anc	l explanations				
	see sep	arat	e sheet				
	Box No.	VIII	Certain observat	ions on	the inter	rnational application	-
						•	_

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

skilled person.

- 1. D1:WO9909042 discloses (pages 30-33; figs 12,15) a microfluidic device for processing a particle-containing liquid sample including a retention member (filter 60 in fig.15) which retains the particles while the liquid exits along an exit path. The retained particles are then removed from the retention member by means of a smaller amount of an elution fluid which is caused to flow past the retention member and entrain the particles so that an enriched particle-containing liquid is formed. The fluid transport through the device can be obtained e.g. by pneumatic pressure or vacuum (see page 7, lines 12-19). Hence all features of claims 9 and 10 are anticipated by D1. Claims 11-13 which depend on claim 10 comprise straightforward features which are not associable to any unexpected technical effect and thus are obvious to the
- 2. The device claimed in claim 1 comprises a pressure actuator which is configured in such a way that in operation the particles retained by the retention member are recombined with a subset of the liquid separated from the particles. This results in an enriched particle-containing liquid, which liquid is the same as the liquid initially containing the particles (i.e. no separate elution liquid as in D1 is needed). Such feature is neither disclosed nor rendered obvious by the teachings of the documents cited in the Search Report.
  Consequently apparatus claim 1, the corresponding method claims 7 and 16 and all the claims depending thereon meet the requirements of Art. 33 PCT.
- 3. Independent claims 14,15 are unclearly formulated (Art. 6 PCT) since although they are directed to a device for concentrating particles of a particle-containing fluid they do not comprise any features (e.g. a filter) leading to such concentration.